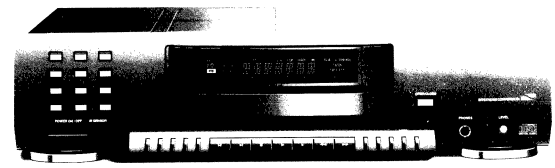
Compact disc player CD930/00S/01S/05S

Service
Service
Service



ServiceManual

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PHILIPS

PHILIPS

TECHNICAL SPECIFICATIONS

General

1.Mains voltage	/00S	:	230V (+6 -10%)
	/05S	:	240V (±10%)
	/01S	:	Selected by voltage selector
2.Mains frequency		:	50-60 Hz
3.Mains voltage selection		:	See circuit diagram Power Supply
4.Power consumption mains,operated		:	10W

External ESI BUS connection

Specification:	V-in Low	:	from -2,0V to +1,6V
	V-in High	:	from +3V to +7,5V
	R-in	:	from 47kΩ to 68kΩ

Line output

1. Number of channels	:	2
2. Output voltage	:	2 Vrms ± 1,5dB
3. Unbalance left-right	:	max. 0,6dB
4. Output resistance	:	200Ω
5. Amplitude linearity	:	max. ± 0,2dB from 20 Hz to 20 kHz
6. Phase non-linearity	:	max. ± 2° from 20 Hz to 20 kHz
7. Signal to noise ratio	:	min. 95dB from 20 Hz to 20 kHz
8. Dynamic range (-60dB)	:	min. 92dB from 20 Hz to 20 kHz
9. Total harmonic distortion + noise	:	min. 88dB from 20 Hz to 20 kHz
10. Intermodulation distortion	:	min. 88dB from 20 Hz to 20 kHz
11. Out-band attenuation	:	min. 55dB (above 24,2 kHz)
12. Channel separation	:	min. 100dB (1 kHz)
13. Automatic switched de-emphasis with time constants 15/50 µs		
14. Non-linearity on -90dB	:	± 2dB

Variable headphone

1. Output voltage	:	max. 5 Vrms ± 2dB
2. Unbalance left-right	:	max. ± 0,6dB
3. Output resistance	:	120Ω
4. Load impedance range	:	32Ω to 600Ω load
5. Output power	:	0 to 50 mW into 30Ω load
	:	0 to 90 mW into 120Ω load
	:	0 to 50 mW into 600Ω load
Audio specs in case of 600Ω load at 4 Vrms voltage output		
6. Signal to noise ratio	:	min 80 dB
7. Dynamic range	:	min 75 dB (20 Hz -20 kHz)
8. Total harmonic distortion	:	min 70 dB (20 Hz - 20 kHz)
9. Intermodulation distortion	:	min 67 dB (20 Hz - 20 kHz)
10. Channel separation	:	min 70 dB (1 kHz)
	:	min 65 dB (31,5 Hz - 16 kHz)

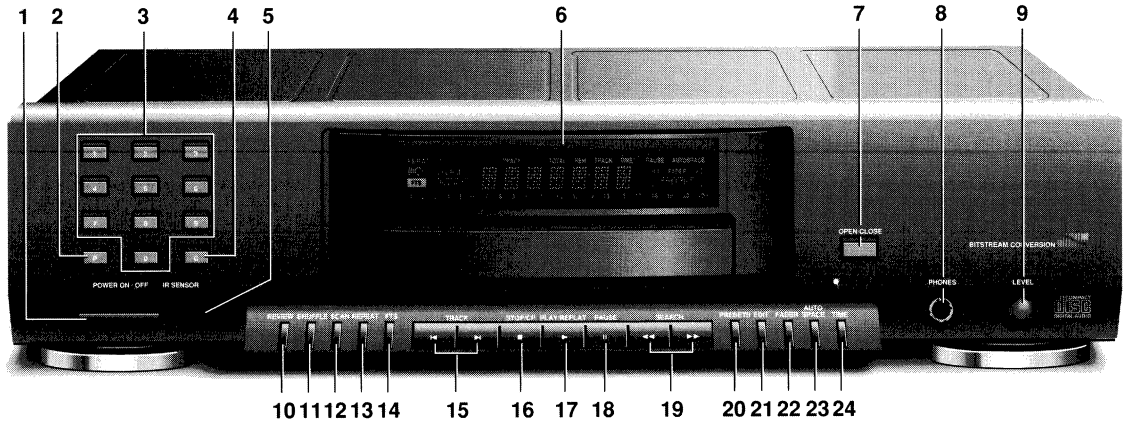
Dimensions and weight

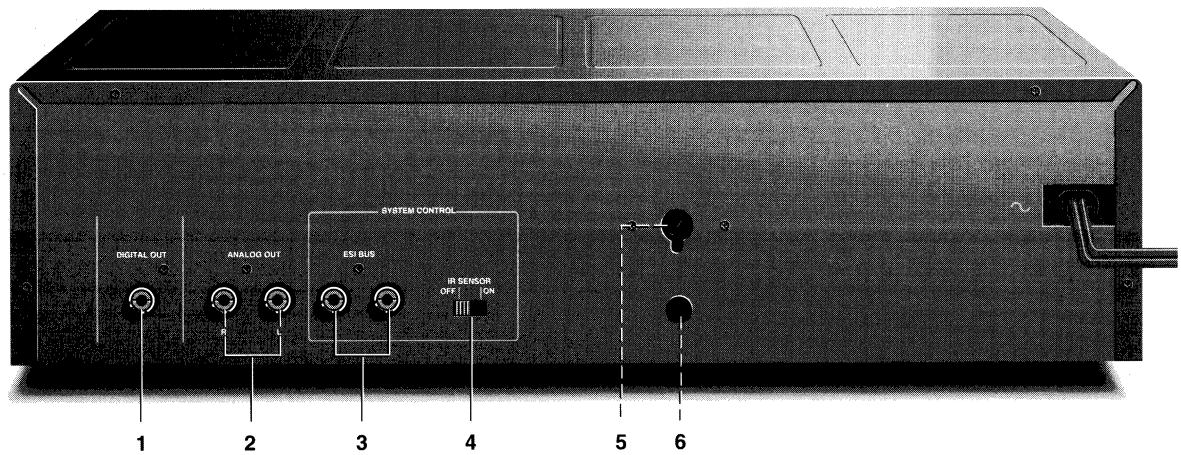
1. Apparatus tray closed	:	WxDxH 435 x 300 x 90/106 mm
2. Apparatus tray open	:	WxDxH 435 x 445 x 90/106 mm
3. Weight	:	4 kg

Optical read-out system

1.Laser type	:	Semiconductor AlGaAs
2.Wavelength	:	780 nm ± 20 nm
3.Light output (c.w.)	:	max. 0,5 mW

CONTROLS & CONNECTIONS





CONTROLS

Indication on App.	Indication in diagram
1. POWER ON/OFF	SK-1
2. P(rogramme)	1419
3. 1-0 digit keys	1410,1411,1412,1413,1414, 1415,1416,1417,1418,1420
3. C(ancel)	1421
5. IR SENSOR	1451
6. Display	1402
7. OPEN/CLOSE	1439
8. PHONES	BU-5
9. LEVEL	3381
10. REVIEW	1422
11. SHUFFLE	1425
12. SCAN	1423
13. REPEAT	1424
14. FTS	1426
15. < TRACK >	1431 1429
16. STOP/CP	1428
17. PLAY/REPLAY	1430
18. PAUSE	1427
19. << SEARCH >>	1432 1435
20. PRESETS	1433
21. EDIT	1434
22. FADER	1438
23. AUTO SPACE	1437
24. TIME	1436

CONNECTIONS

Indication on App.	Indication in diagram
1. DIGITAL OUT	BU-4
2. ANALOG OUT	BU-2
3. ESI BUS	BU-3
4. IR SENSOR ON OFF	SK-2
5. Voltage selector(not all versions)	
6. Mains fuse holder(not all versions)	

ESD

(GB) **WARNING**

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD).
Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.
Keep components and tools also at this potential.

(NL) **WAARSCHUWING**

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).
Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.
Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

(F) **ATTENTION**

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

(D) **WARNUNG**

Alle ICs und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD).
Unsorgfältige Behandlung bei der Reparatur kann die Lebensdauer drastisch vermindern.
Sorgen sie dafür, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.
halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

(I) **AVVERTIMENTO**

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione.
Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambiago identici a quelli specificati.

(F)

Les normes de sécurité exigent que l'appareil soit remîs à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

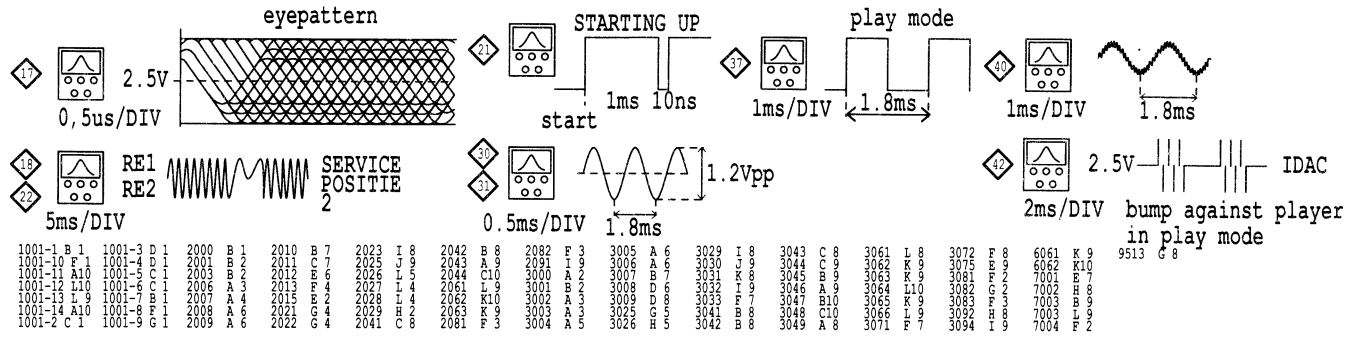
CLASS 3B
LASER PRODUCT

CAUTION INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
VARO! AVATTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER SÄTTEILYLLE ÄLÄ KATSO SÄTEESEN
VARNING OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN
ADVERSEL USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UNSAETTELSE FOR STRÅLING
DANGER INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM
VORSICHT UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETSEN

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne"

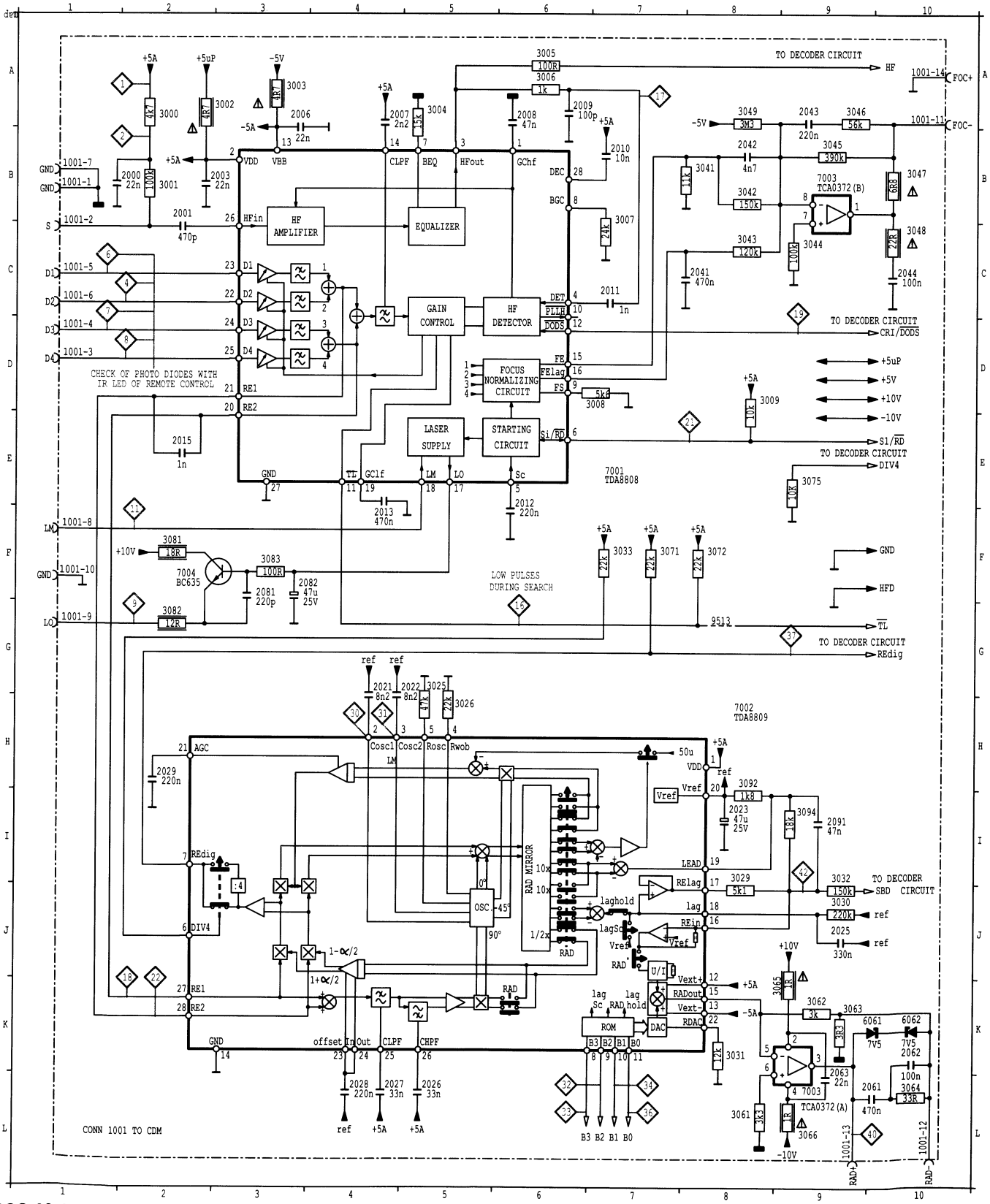
CLASS 1
LASER PRODUCT
3122 110 03420

SERVO CIRCUIT DIAGRAM



1001-1	B 1	1001-3	D 1	2000	B 1	2010	B 7	2023	I 8	2042	B 8	2082	F 3	3005	A 6	3029	I 8	3043	C 8	3061	L 8	3072	F 8	6061	K 9
1001-10	F 1	1001-4	D 1	2001	B 2	2011	C 7	2025	J 9	2043	A 9	2091	I 9	3006	A 6	3030	J 9	3044	C 9	3062	K 9	3075	F 9	6062	K10
1001-11	A10	1001-5	C 1	2003	B 2	2012	E 6	2026	L 5	2044	C10	3000	A 2	3007	B 7	3031	K 8	3045	B 9	3063	K 9	3081	F 2	7001	E 7
1001-12	L10	1001-6	C 1	2006	A 3	2013	F 4	2027	L 4	2061	L 9	3001	B 2	3008	D 6	3032	I 9	3046	A 9	3064	L10	3082	G 2	7002	H 8
1001-13	L 9	1001-7	B 1	2007	A 4	2015	E 2	2028	L 4	2062	K10	3002	A 3	3009	D 8	3033	F 7	3047	B10	3065	K 9	3083	F 3	7003	B 9
1001-14	A10	1001-8	F 1	2008	A 6	2021	G 4	2029	H 2	2063	K 9	3003	A 3	3025	G 5	3041	B 8	3048	C10	3066	L 9	3092	H 8	7003	L 9
1001-2	C 1	1001-9	G 1	2009	A 6	2022	G 4	2041	C 8	2081	F 3	3004	A 5	3026	H 5	3042	B 8	3049	A 8	3071	F 7	3094	I 9	7004	F 2

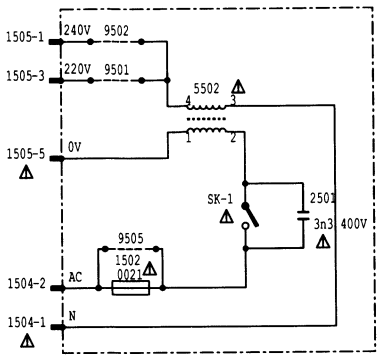
9513 G 8



3104 118 00621S-B
9235

MAINS SWITCH DIAGRAM

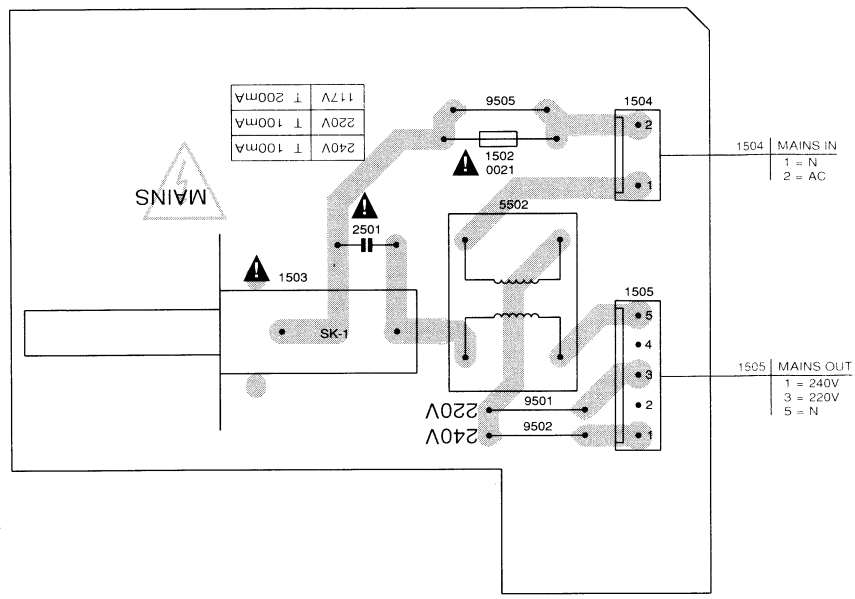
CONN 1504 TO CONN 1511
ON SUPPLY CIRCUIT DIAGRAM



CD930/	00S	01S	05S	10S	17S
Ref 0021	X		X	X	X
1502	100mA	var.	100mA	100mA	200mA
9501	X	X		X	X
9502			X		
9505		X			

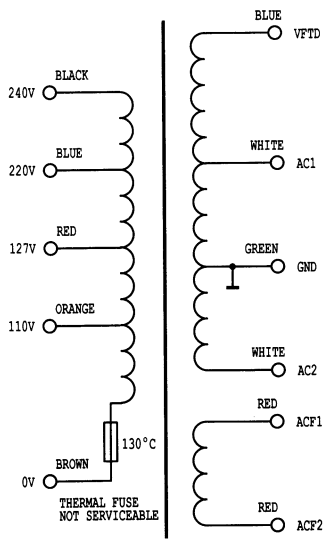
3104 118 00601S-E
9150

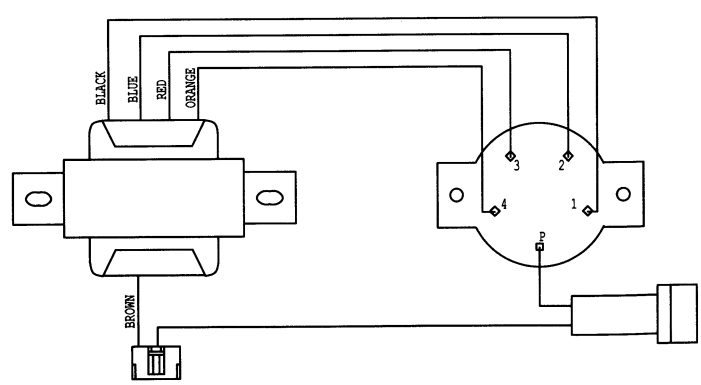
MAINS SWITCH PANEL



3104 113 3003 B-COMP
9219

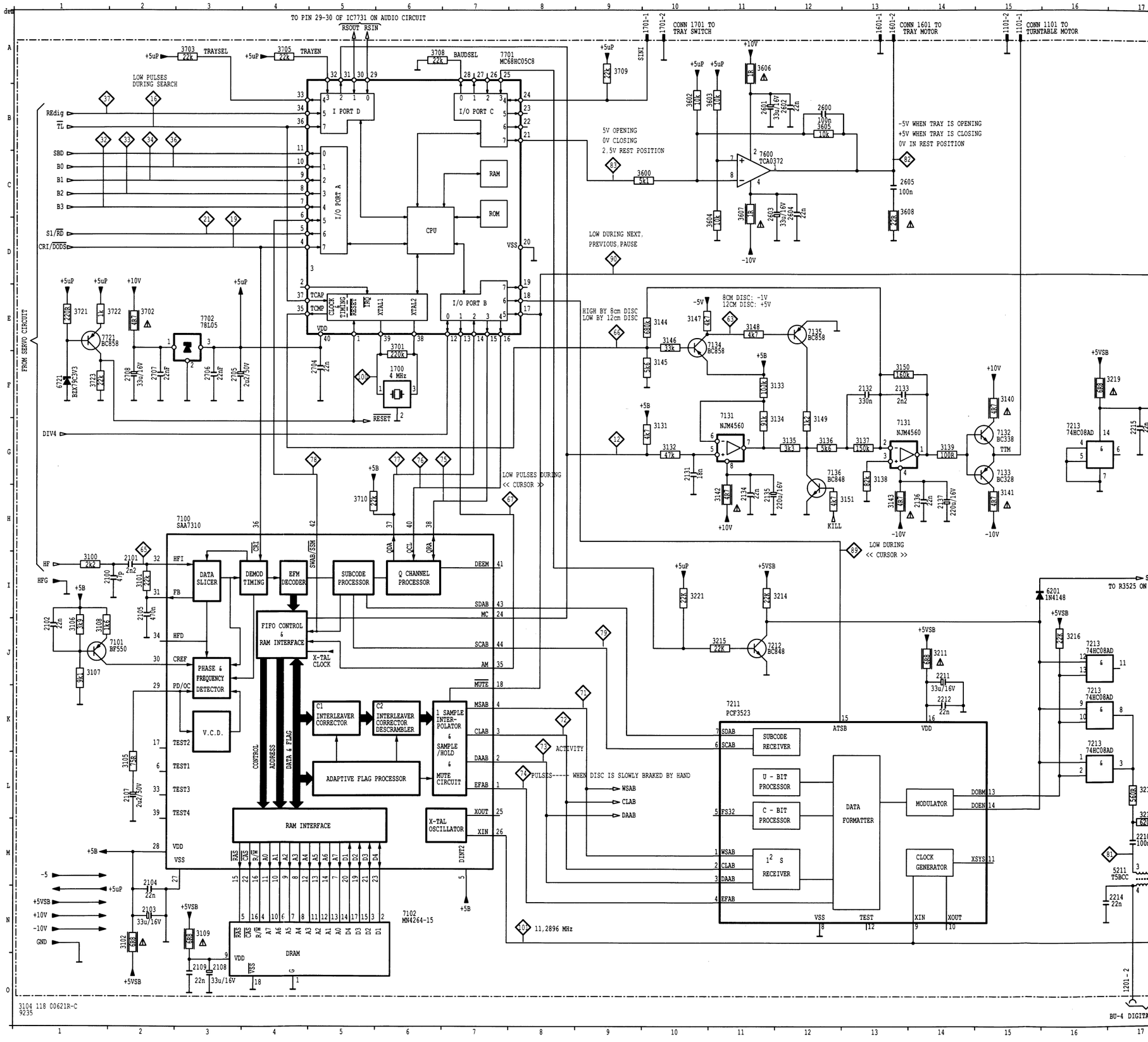
VOLTAGE SELECTOR





HAS1055
9234

DECODER CIRCUIT DIAGRAM



TO PIN 29-30 OF IC7731 ON AUDIO CIRCUIT

RSOUT RSIN

CONN 1701 TO TRAY SWITCH

CONN 1601 TO TRAY MOTOR

CONN 1101 TO TURNTABLE MOTOR

7100 SAA7310

7701 MC68HC05C8

7702 78L05

7131 NJM4560

7211 PCF3523

7213 74HC08AD

7600 TCA0372

7102 MN4264-15

DATA SLICER

DEMOD TIMING

EFM DECODER

SUBCODE PROCESSOR

Q CHANNEL PROCESSOR

FIFO CONTROL & RAM INTERFACE

PHASE & FREQUENCY DETECTOR

V.C.D.

C1 INTERLEAVER CORRECTOR

C2 INTERLEAVER CORRECTOR DESCRAMBLER

1 SAMPLE INTER-POLATOR & SAMPLE /HOLD & MUTE CIRCUIT

ADAPTIVE FLAG PROCESSOR

RAM INTERFACE

X-TAL OSCILLATOR

SUBCODE RECEIVER

U - BIT PROCESSOR

C - BIT PROCESSOR

1^2 S RECEIVER

DATA FORMATTER

MODULATOR

CLOCK GENERATOR

I PORT D

I/O PORT C

I/O PORT A

I/O PORT B

CPU

RAM

ROM

5V OPENING
0V CLOSING
2,5V REST POSITION

-5V WHEN TRAY IS OPENING
+5V WHEN TRAY IS CLOSING
0V IN REST POSITION

LOW DURING NEXT, PREVIOUS, PAUSE

8CM DISC: -1V
12CM DISC: +5V

HIGH BY 8cm DISC
LOW BY 12cm DISC

LOW PULSES DURING SEARCH

LOW PULSES DURING << CURSOR >>

LOW DURING << CURSOR >>

ACTIVITY

PULSES---- WHEN DISC IS SLOWLY BRAKED BY HAND

WSAB
CLAB
DAAB

TO R3525 ON POWER SUPPLY CIRCUIT

TO AUDIO CIRCUIT

BU-4 DIGITAL OUTPUT

3104 118 00621S-C
9235

MC SIGNAL

12 — 0V, ≈11us, 5us/DIV, stand by
0V, start up
0V, play mode

19 — 1ms/DIV, number depends on search speed

21 — STARTING UP, 1ms 10ns, start

	SERVICE POSITION 0		PLAY MODE
	SEARCH		SEARCH
	<<	>>	
32	HIGH	HIGH	ACTIVITY
33	HIGH	LOW	ACTIVITY
34	HIGH	HIGH	ACTIVITY
36	LOW	LOW	ACTIVITY

play mode

37 — 1ms/DIV, 1.8ms

eyepattern

47 / 65 — 2.5V, 0,5us/DIV

71 / 72 — 5us/DIV, WSAB, CLAB, 11.34us

play mode

75 — 10ms/DIV, QRA, asynchronous uP dependent

76 — 10 X 8 bits, 0.2ms/DIV, QCL

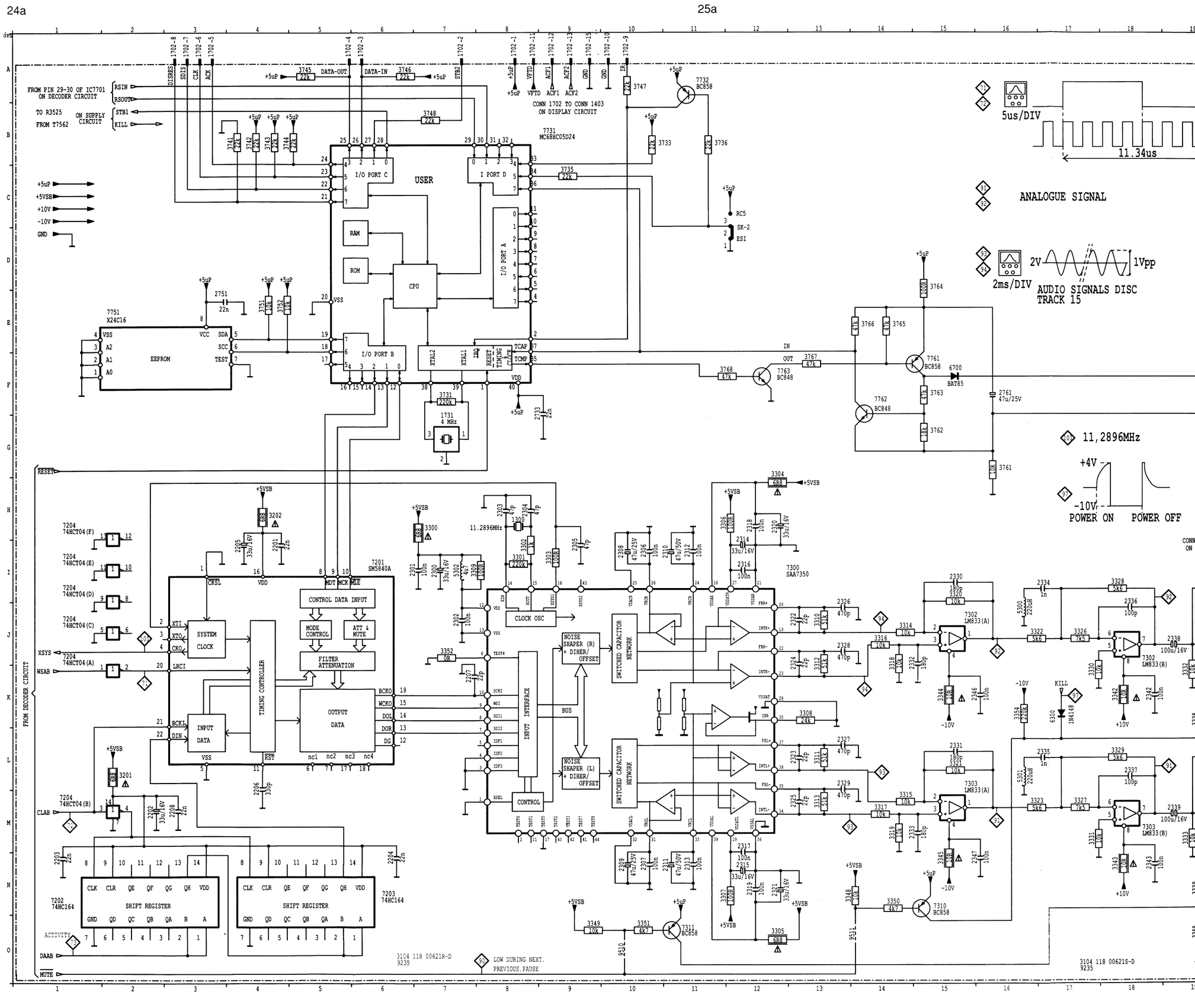
77 — QDA, continue data

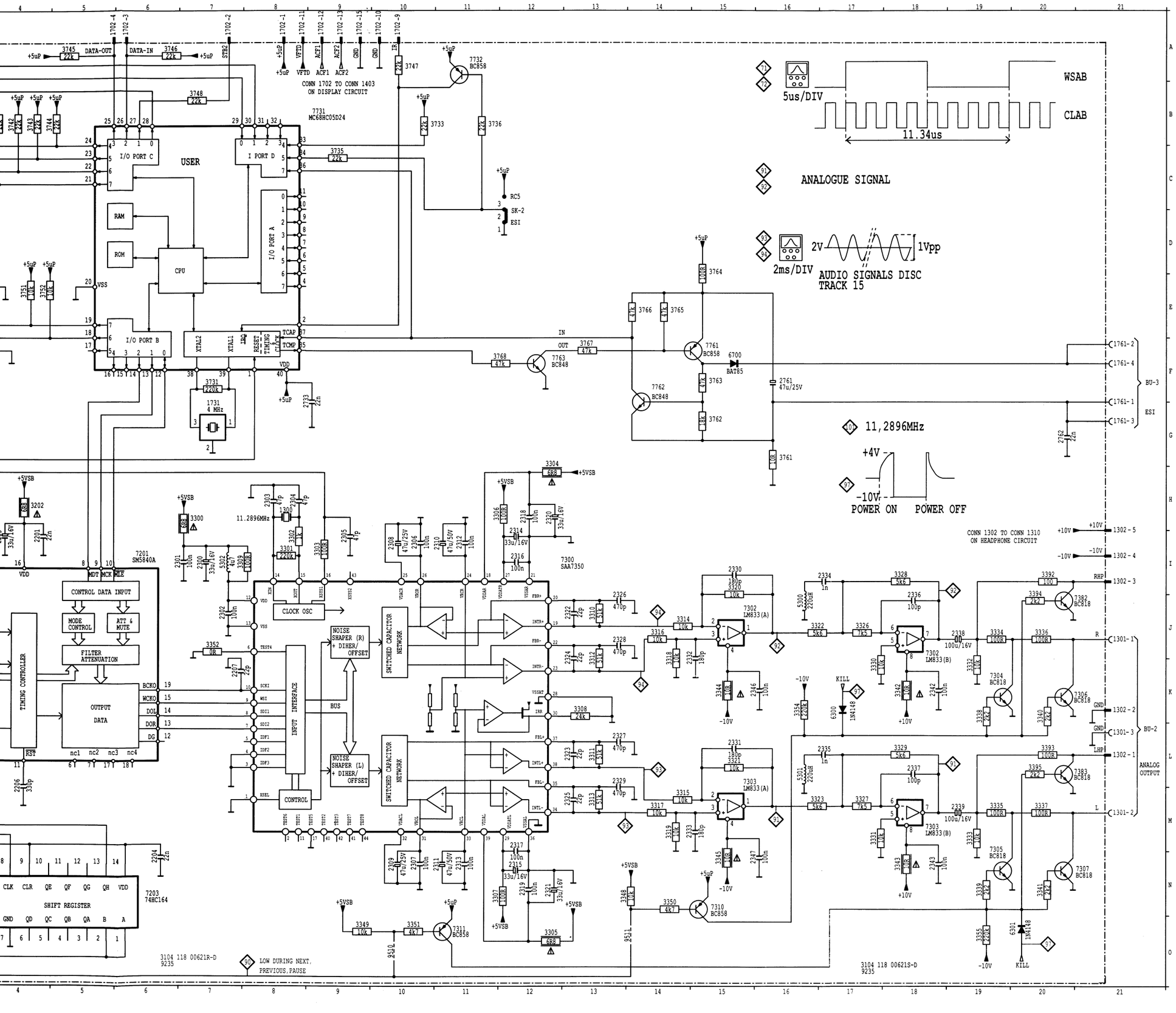
78 — 50us/DIV, 136us

79 — 50us/DIV, 136us

81 — 0V, 5us/DIV

AUDIO CIRCUIT DIAGRAM





1202	D12	3767	F13
1300	H 8	3768	F12
1301	M21	5300	J16
1301	L21	5301	L16
1301	J21	5302	I 7
1302	L21	6300	B17
1302	K21	6301	O19
1302	I21	6700	F15
1302	I21	7201	I 6
1302	I21	7202	N 1
1702	A 3	7203	N 6
1702	A 3	7204	M 1
1702	A 3	7204	J 1
1702	A 3	7204	J 1
1702	A 5	7204	I 1
1702	A 6	7204	I 1
1702	A 7	7204	H 1
1702	A 8	7300	I12
1702	A 8	7302	J15
1702	A 9	7302	J18
1702	A 9	7303	L15
1702	A 9	7303	M18
1702	A10	7304	K19
1702	A10	7305	M19
1731	G 7	7306	K20
1761	G21	7307	N21
1761	G21	7310	N15
1761	F21	7311	O11
1761	F21	7382	J20
2201	I 2	7383	L20
2202	M 2	7731	B 9
2203	N 1	7732	A11
2204	N 6	7751	B 2
2205	I 4	7761	F15
2206	L 4	7762	F14
2207	K 7	7763	F12
2208	M 7	9510	O10
2300	I 7	9511	O14
2301	I 7		
2302	J 7		
2303	H 8		
2304	H 8		
2305	I 9		
2306	I10		
2307	N10		
2308	I10		
2309	N10		
2310	I11		
2311	N11		
2312	I11		
2313	N11		
2314	I12		
2315	N12		
2316	I12		
2317	M12		
2318	H12		
2319	N12		
2320	H12		
2321	N12		
2322	J13		
2323	L13		
2324	J13		
2325	M13		
2326	J13		
2327	L13		
2328	J13		
2329	L13		
2330	I15		
2331	L15		
2332	J15		
2333	M15		
2334	I17		
2335	L17		
2336	J18		
2337	L18		
2338	J19		
2339	M19		
2342	K18		
2343	N18		
2346	K16		
2347	N16		
2733	F 9		
2751	B 3		
2761	F16		
2762	G20		
3201	L 2		
3202	H 1		
3300	H 7		
3301	I 8		
3302	I 9		
3303	I 9		
3304	G12		
3305	O12		
3306	H11		
3307	N11		
3308	J14		
3309	I 7		
3310	J13		
3311	L13		
3312	J13		
3313	M13		
3314	J14		
3315	M14		
3316	J14		
3317	M14		
3318	J14		
3319	M14		
3320	I15		
3321	L15		
3322	J16		
3323	M16		
3326	J17		
3327	M17		
3328	I18		
3329	L18		
3330	K17		
3331	M17		
3332	K19		
3333	M19		
3334	J19		
3335	M19		
3336	J20		
3337	M20		
3338	K19		
3339	N19		
3340	K20		
3341	N20		
3342	K18		
3343	N18		
3344	K15		
3345	N15		
3348	N13		
3349	O 9		
3350	N14		
3351	O10		
3352	I 7		
3354	K16		
3355	O16		
3392	J20		
3393	L20		
3394	J20		
3395	L20		
3731	F 7		
3733	B11		
3735	B 4		
3736	B 4		
3741	B 4		
3742	B 4		
3743	B 4		
3744	B 4		
3745	A 5		
3746	A 6		
3747	A10		
3748	B 7		
3751	B 4		
3752	B 4		
3761	G16		
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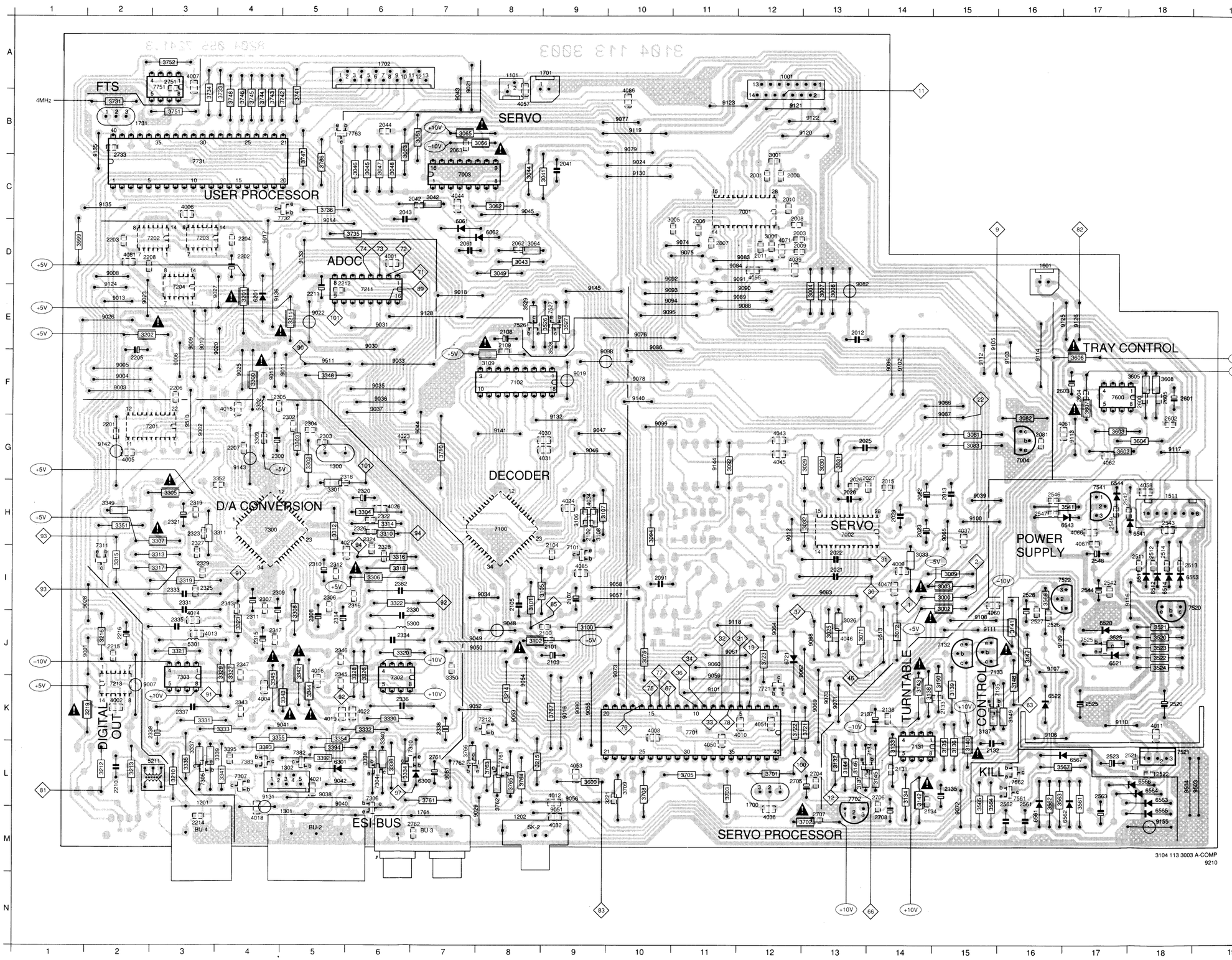
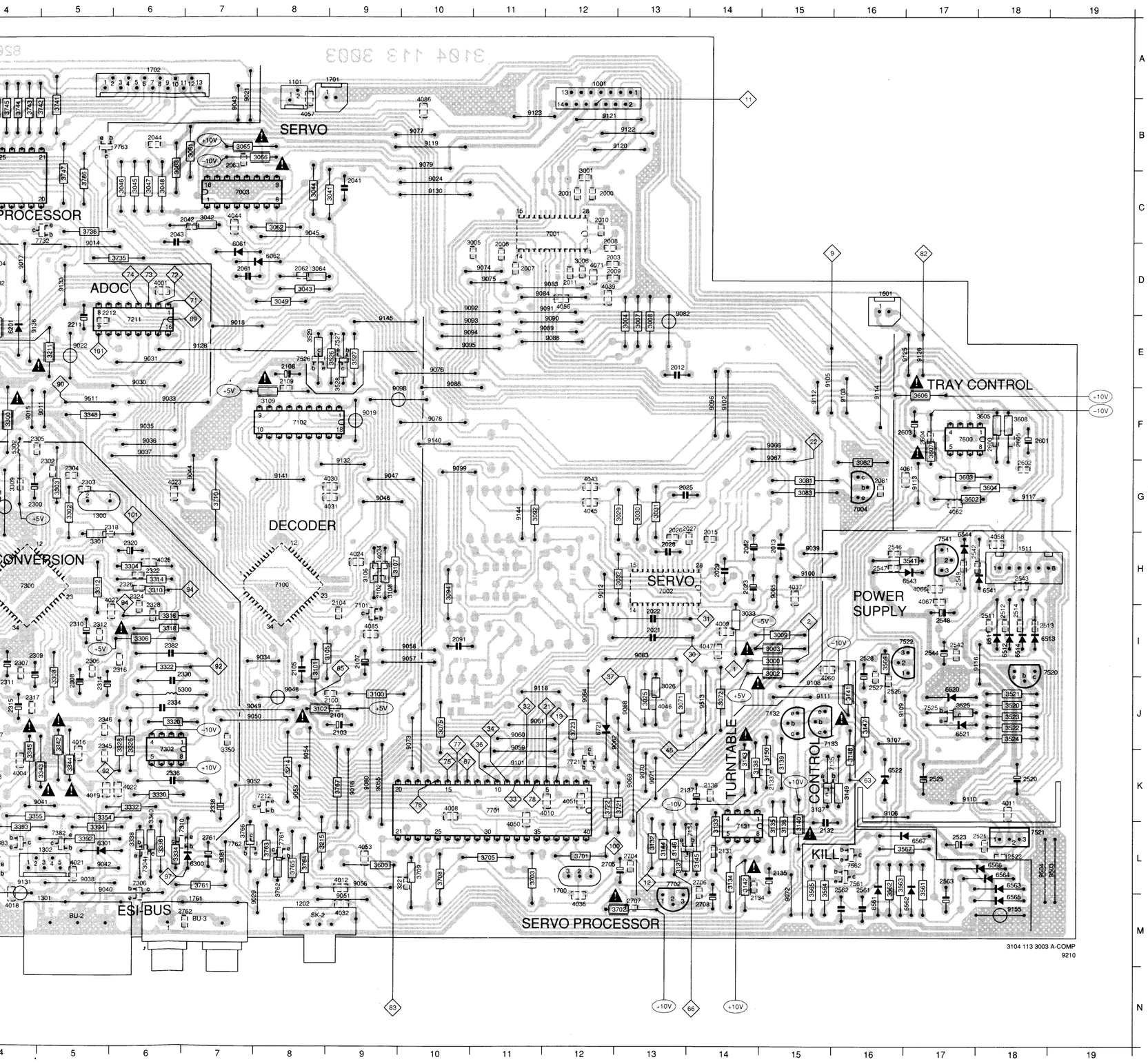
3763	F15		
3764	D15		
3765	B14		
3766	B14		

MAIN PANEL COMPONENT SIDE L3



3104 113 3003 A-COMP
9210



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1101	A8	2347	J4	3214	K8	3764	L8	7521	L18	9101	K11
1201	L3	2382	I6	3215	L8	3765	L8	7522	I16	9102	F14
1202	M8	2511	I18	3216	J2	3766	L7	7525	J17	9103	F16
1300	G5	2512	I18	3219	K2	3767	K9	7526	E8	9105	E15
1301	M5	2513	I18	3221	L10	3786	C5	7527	E9	9106	K16
1302	L5	2514	I18	3300	F4	3999	D1	7541	H17	9107	J16
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2007	D11	2544	I17	3312	H5	4013	J3	7763	B6	9120	B12
2008	C12	2546	H16	3313	I3	4014	J3	9001	J2	9121	B12
2009	D12	2547	H16	3314	H6	4015	F4	9002	G3	9122	B13
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2339	K3	3210	L3	3752	A3	7311	I2	9096	F14		
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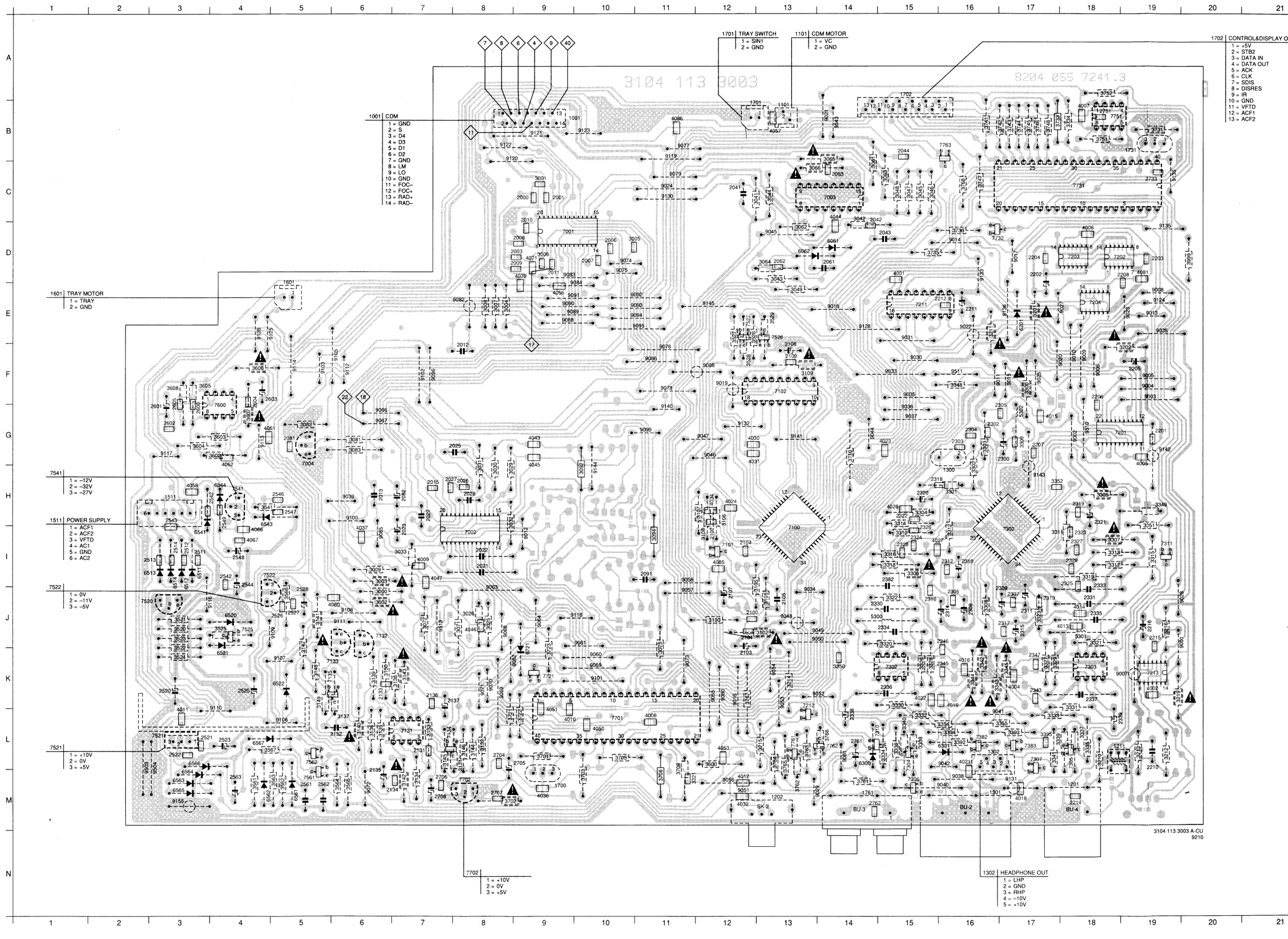
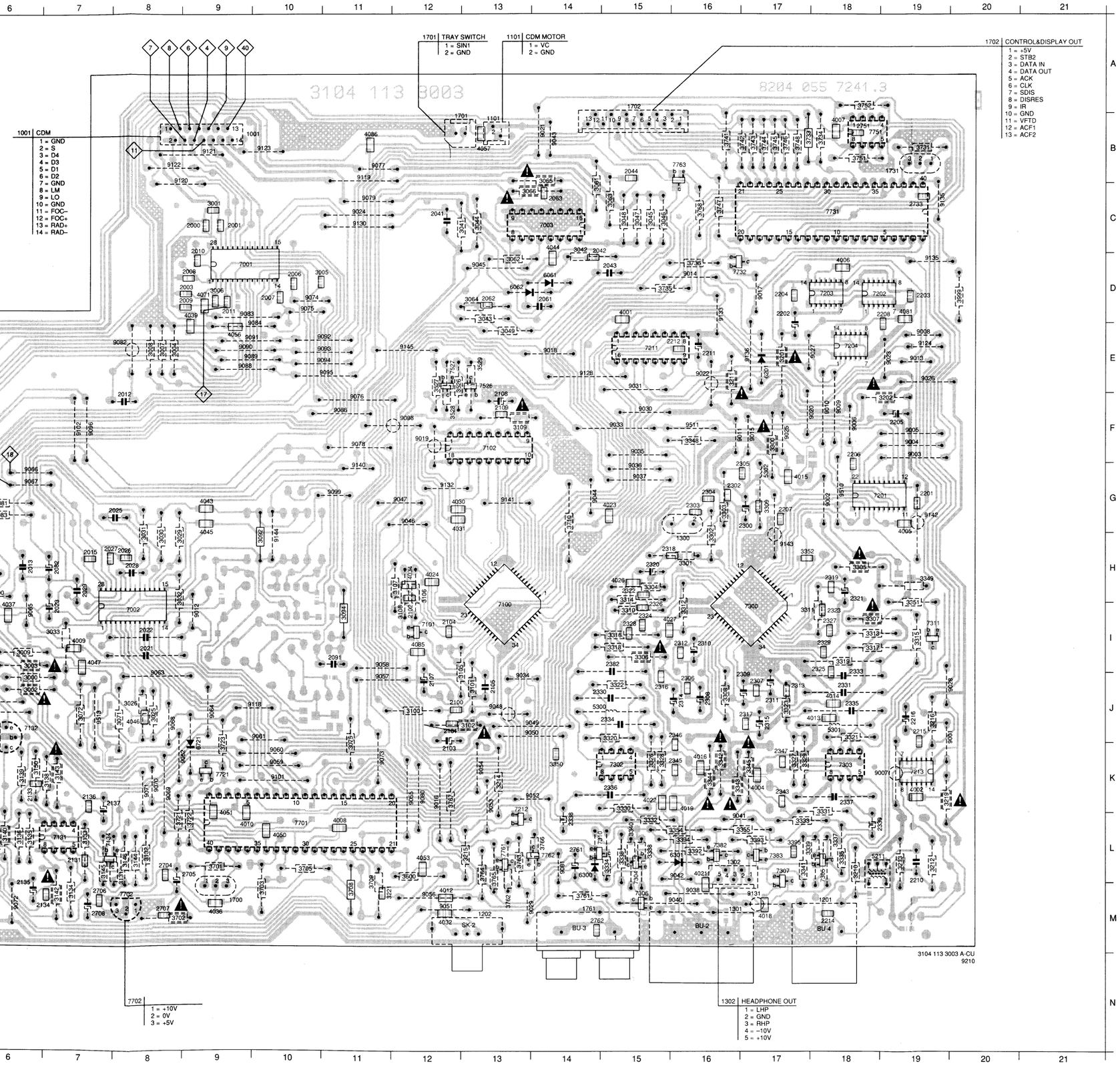
MAIN PANEL SOLDER SIDE L3





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1202	M13	2521	L3	3307	I18	4013	J17	9005	F19	9132	G12
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1731	B19	2543	H3	3316	I15	4024	H12	9014	D16	9144	H10
1761	M14	2544	I4	3317	I18	4026	H15	9015	F17	9145	E12
2000	C9	2546	H5	3318	I15	4027	I15	9016	K12	9155	M3
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2215	J19	3082	G5	3604	G3	7004	H5	9075	D10		
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2334	J15	3210	L18	3765	M13	7561	M5	9113	G4		
2335	J18	3211	E16	3766	L14	7562	L5	9114	F5		
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2338	L14	3214	K13	3999	D20	7702	M8	9118	J9		
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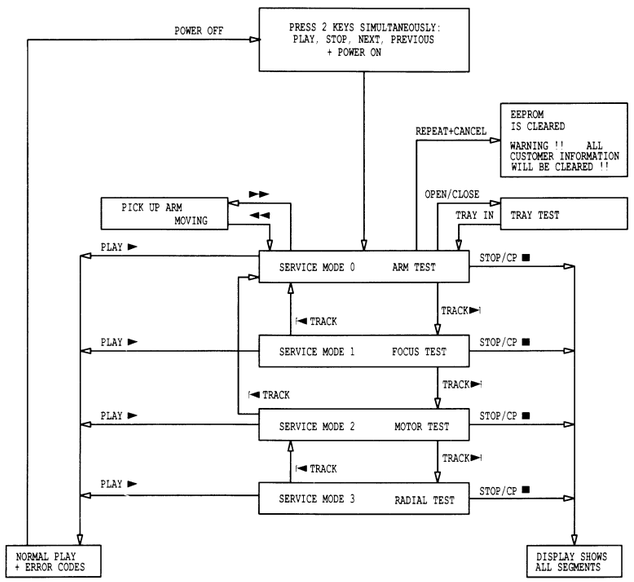
SERVICE TEST PROGRAM



HAS1020
9143

ERROR CODE TABLE

SYSTEM ERRORS

ER02	Focus error
ER03	Radial error
ER04	Too many TL
ER05	TL low to long
ER06	Jump error
ER07	Subcode error
ER08	TOC error
ER60	EEPROM error during initialisation
ER61	EEPROM error during read or write
ER67	No or bad communication between SERVO and USER μP

CHECK OF THE PHOTODIODES

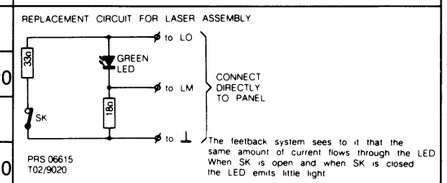
Step	Signal	Mode	◇	⟲	⊓	Λ	Remarks
1	D2 D1 D3 D4	power on	4 6 7 8	–	–	signal 4Ξ6Ξ7Ξ8	Signal depends on Distance lens ⟷ IR LED of remote control

T-23366A

CHECK OF LASER SUPPLY

The laser, the lasersupply plus the monitor diode form a feedback system.
A defect in the lasersupply may result in the destruction of the laser. If, in that case, the laser is replaced, (= complete C.D.M.-unit) the new laser will also become defective. However, it is impossible to check and repair a feedback system if a link is missing. For this reason the laser supply can be checked with teh replacement circuit for laser assembly.

Step	Signal	Mode	◇	⊓	Remarks
1	LO	serv. pos. 2 SK	9 V	1.8<V <2.3	REPLACEMENT CIRCUIT FOR LASER ASSEMBLY
	LM		11 V	170<mV <220	
2	LO	serv. pos. 2 SK	9 V	1.8<V <2.3	
	LM		11 V	170<mV <220	
3	LO	Power on	9 V	0V ± 0.2V	No light



T-23366B

After opening SK, the led will emit more light for a short moment.

CHECK OF CDM-9

Step	Signal	Mode	◇	⟲
1	S current = voltage across R3000	Test disc 5A play	1 V 2 mV DC	56<mV<76

WARNINGS

1. Never disconnect flex when power is on.
2. Laser power is adjusted during the production process and may not be readjusted.

SPECIFICATIONS M

Signal	Mode
BU2-L	Test d distors
BU2-R	Test d distors
BU2-L	Test d
BU2-R	Test d

Filter = 13th order f

CD PLAYER

CHECK OF THE PHOTODIODES

Step	Signal	Mode	◇	⌀	▭	🔍	Remarks
1	D2 D1 D3 D4	power on	4 ⊓⊥ 6 ⊓⊥ 7 ⊓⊥ 8 ⊓⊥	–	–	signal 4E6E7E8	Signal depends on Distance lens ↔ IR LED of remote control

T-23366A

CHECK OF LASER SUPPLY

The laser, the lasersupply plus the monitor diode form a feedback system.
A defect in the lasersupply may result in the destruction of the laser. If, in that case, the laser is replaced, (= complete C.D.M.-unit) the new laser will also become defective. However, it is impossible to check and repair a feedback system if a link is missing. For this reason the laser supply can be checked with teh replacement circuit for laser assembly.

Step	Signal	Mode	◇	▭	Remarks
1	LO	serv. pos. 2 SK	9 (V) ⊥	1.8<V <2.3	REPLACEMENT CIRCUIT FOR LASER ASSEMBLY to LO 33Ω GREEN LED to LM CONNECT DIRECTLY TO PANEL SK 180Ω to ⊥ PRS 06615 T02/9020 The feetback system sees to it that the same amount of current flows through the LED When SK is open and when SK is closed the LED emits little light
	LM		11 (V) ⊥	170<mV <220	
2	LO	serv. pos. 2 SK	9 (V) ⊥	1.8<V <2.3	
	LM		11 (V) ⊥	170<mV <220	
3	LO	Power on	9 (V) ⊥	0V ± 0.2V	No light

T-23366B

After opening SK, the led will emit more light for a short moment.

CHECK OF CDM-9

Step	Signal	Mode	◇	⌐(V)¬
1	S current = voltage across R3000	Test disc 5A play	1 (V) 2 mV DC	56<mV<76

WARNINGS

1. Never disconnect flex when power is on.
2. Laser power is adjusted during the production process and may not be readjusted.

SPECIFICATIONS MEASUREMENT

Signal	Mode	◇	▭	🔍	Remarks
BU2-L	Test disc 3, play, total harmonic distorsion	filter output	See technial data		See drawing 30459A12
BU2-R	Test disc 3, play, total harmonic distorsion	filter output	See technial data		See drawing 30459A12
BU2-L	Test disc 3, play signal-to-noise ratio	filter output	See technial data		See drawing 30459A12
BU2-R	Test disc 3, play signal-to-noise ratio	filter output	See technial data		See drawing 30459A12

T-23366M

Filter = 13th order filter 4822 395 30204

30 459 A12

MAIN PANEL

MISCELLANEOUS

	4822 492 63076	CLAMPING SPRING
BU-2	4822 267 31456	ANALOG OUT SOCKET
BU-3	4822 267 31455	ESI IN/OUT SOCKET
BU-4	4822 267 31457	DIGITAL OUT SOCKET
SK-2	4822 276 12339	SWITCH ESI ON/OFF
1101	4822 265 30525	RFK5 CONNECTOR
1302	4822 267 40624	RFK5 CONNECTOR
1702	4822 267 50723	CONNECTOR 13P

CRYSTAL

1300	4822 242 71349	CRYSTAL 11,2896 MHz
1700	4822 242 72527	RESONATOR 4 MHz
1731	4822 242 72527	RESONATOR 4 MHz

CAPACITORS

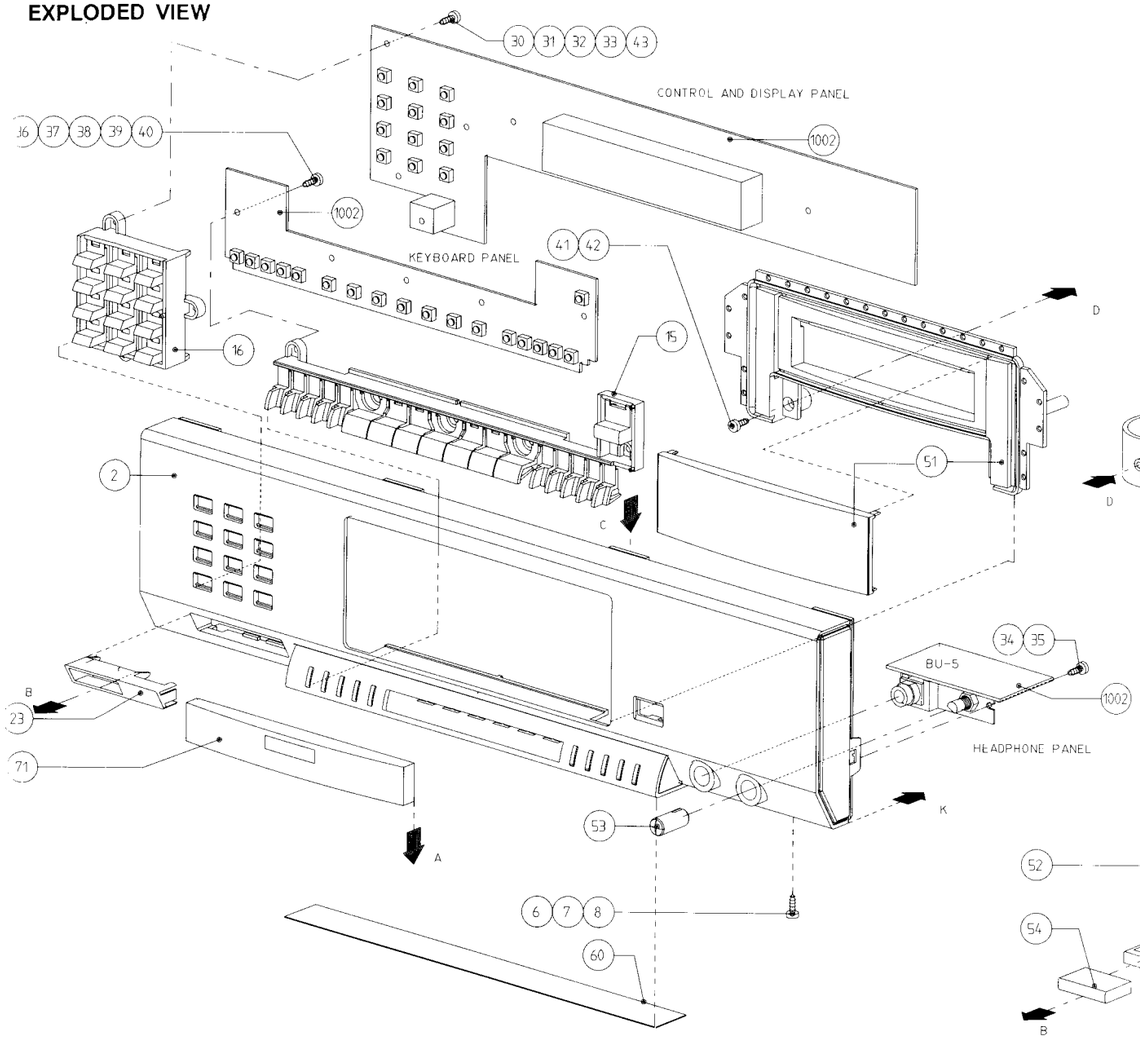
2000	4822 122 33809	22nF 20% 50V
2001	5322 122 32268	470pF 10% 50V
2003	4822 122 33809	22nF 20% 50V
2006	4822 122 33809	22nF 20% 50V
2007	4822 122 33175	2,2nF 20% 50V
2008	4822 122 32542	47nF 10% 63V
2009	5322 122 32531	100pF 5% 50V
2010	4822 122 33177	10nF 20% 50V
2011	5322 122 34123	1nF 10% 50V
2012	4822 121 42408	220nF 5% 63V
2013	4822 121 51252	470nF 5% 63V
2015	5322 122 34123	1nF 10% 50V
2021	4822 121 51321	8,2µF 1% 63V
2022	4822 121 51321	8,2µF 1% 63V
2023	4822 124 40433	47µF 20% 25V
2025	5322 121 42661	330nF 5% 63V
2026	4822 122 33342	33nF 10% 63V
2027	4822 122 33342	33nF 10% 63V
2028	4822 121 42408	220nF 5% 63V
2029	4822 121 42408	220nF 5% 63V
2041	4822 121 51252	470nF 5% 63V
2042	5322 126 10223	4,7nF 10% 63V
2043	4822 121 42408	220nF 5% 63V
2044	4822 122 33496	100nF 10% 63V
2061	4822 121 51252	470nF 5% 63V
2062	4822 122 33496	100nF 10% 63V
2063	4822 122 33809	22nF 20% 50V
2081	4822 122 32575	220pF 10% 500V
2082	4822 124 40433	47µF 20% 25V
2091	4822 121 43526	47nF 5% 100V
2100	5322 122 32452	47pF 5% 50V
2101	4822 122 33175	2,2nF 20% 50V
2102	4822 122 33809	22nF 20% 50V
2103	4822 124 40272	33µF 20% 16V
2104	4822 122 33809	22nF 20% 50V
2105	4822 121 51252	470nF 5% 63V
2107	4822 124 41576	2,2µF 20% 50V
2108	4822 124 40272	33µF 20% 16V
2109	4822 122 33809	22nF 20% 50V
2131	4822 122 33893	18nF 10% 63V
2132	5322 121 42661	330nF 5% 63V
2133	4822 122 33175	2,2nF 20% 50V
2134	4822 122 33809	22nF 20% 50V
2135	4822 124 40196	220µF 20% 16V
2136	4822 122 33809	22nF 20% 50V
2137	4822 124 40196	220µF 20% 16V
2201	4822 122 33809	22nF 20% 50V
2202	4822 124 40272	33µF 20% 16V
2203	4822 122 33809	22nF 20% 50V
2204	4822 122 33809	22nF 20% 50V
2205	4822 124 40272	33µF 20% 16V
2206	5322 122 31863	330pF 5% 50V
2207	5322 122 32658	22pF 5% 50V
2208	4822 122 33809	22nF 20% 50V
2210	5322 121 42386	100nF 5% 63V
2211	4822 124 40272	33µF 20% 16V
2212	4822 122 33809	22nF 20% 50V
2214	4822 122 33809	22nF 20% 50V
2215	4822 122 33809	22nF 20% 50V
2216	4822 124 40272	33µF 20% 16V
2300	4822 124 40272	33µF 20% 16V
2301	4822 122 33496	100nF 10% 63V
2302	4822 122 33496	100nF 10% 63V
2303	5322 122 32452	47pF 5% 50V
2304	5322 122 32452	47pF 5% 50V
2305	5322 122 32452	47pF 5% 50V
2306	4822 122 33496	100nF 10% 63V
2307	4822 122 33496	100nF 10% 63V
2308	4822 124 40433	47µF 20% 25V
2309	4822 124 40433	47µF 20% 25V
2310	4822 124 40433	47µF 20% 25V
2311	4822 124 40433	47µF 20% 25V
2312	4822 122 33496	100nF 10% 63V
2313	4822 122 33496	100nF 10% 63V
2314	4822 124 40272	33µF 20% 16V
2315	4822 124 40272	33µF 20% 16V
2316	4822 122 33496	100nF 10% 63V
2317	4822 122 33496	100nF 10% 63V
2318	4822 122 33496	100nF 10% 63V
2319	4822 122 33496	100nF 10% 63V
2320	4822 124 40272	33µF 20% 16V
2321	4822 124 40272	33µF 20% 16V
2322	5322 122 32658	22pF 5% 50V
2323	5322 122 32658	22pF 5% 50V

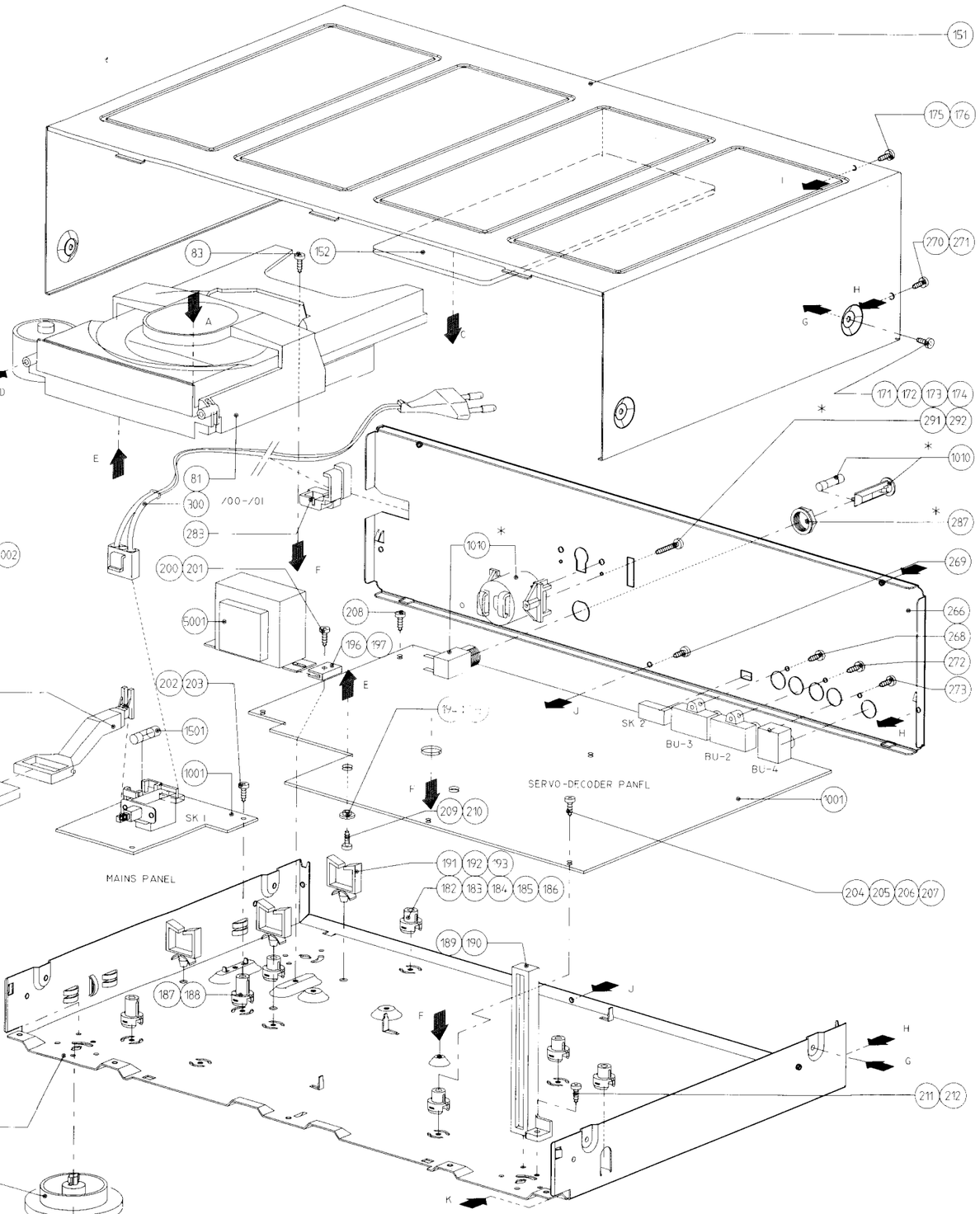
2324	5322 122 32658	22pF 5% 50V
2325	5322 122 32658	22pF 5% 50V
2326	5322 122 32268	470pF 10% 50V
2327	5322 122 32268	470pF 10% 50V
2328	5322 122 32268	470pF 10% 50V
2329	5322 122 32268	470pF 10% 50V
2330	4822 121 70074	180pF 1% 400V
2331	4822 121 70074	180pF 1% 400V
2332	4822 121 70074	180pF 1% 400V
2333	4822 121 70074	180pF 1% 400V
2334	4822 121 50591	1nF 1% 630V
2335	4822 121 50591	1nF 1% 630V
2336	4822 121 51288	100pF 630V
2337	4822 121 51288	100pF 630V
2338	4822 124 22339	100µF 16V
2339	4822 124 22339	100µF 16V
2342	4822 122 33496	100nF 10% 63V
2343	4822 122 33496	100nF 10% 63V
2346	4822 122 33496	100nF 10% 63V
2347	4822 122 33496	100nF 10% 63V
2501	4822 126 10454	3,3nF 20% 400V
2511	4822 122 33809	22nF 20% 50V
2512	4822 122 33809	22nF 20% 50V
2513	4822 122 33809	22nF 20% 50V
2514	4822 122 33809	22nF 20% 50V
2520	4822 124 23183	4700µF 20% 16V
2521	4822 122 33809	22nF 20% 50V
2522	4822 122 33809	22nF 20% 50V
2523	4822 124 41576	2,2µF 20% 50V
2525	4822 124 23268	3300µF 20% 16V
2526	4822 122 33809	22nF 20% 50V
2527	4822 122 33809	22nF 20% 50V
2528	4822 124 41577	4,7µF 20% 50V
2542	4822 122 33809	22nF 20% 50V
2543	4822 122 33809	22nF 20% 50V
2544	4822 124 23172	470µF 20% 50V
2545	4822 122 33809	22nF 20% 50V
2546	4822 122 33809	22nF 20% 50V
2547	4822 122 33809	22nF 20% 50V
2548	4822 124 41577	4,7µF 20% 50V
2549	4822 122 33809	22nF 20% 50V
2561	4822 121 51252	470nF 5% 63V
2562	5322 121 42661	330nF 5% 63V
2563	4822 124 40849	330µF 20% 16V
2600	4822 122 33496	100nF 10% 63V
2601	4822 124 40272	33µF 20% 16V
2602	4822 122 33809	22nF 20% 50V
2603	4822 124 40272	33µF 20% 16V
2604	4822 122 33809	22nF 20% 50V
2605	4822 122 33496	100nF 10% 63V
2704	4822 122 33809	22nF 20% 50V
2705	4822 124 41576	2,2µF 20% 50V
2706	4822 122 33809	22nF 20% 50V
2707	4822 122 33809	22nF 20% 50V
2708	4822 124 40272	33µF 20% 16V
2733	4822 122 33809	22nF 20% 50V
2751	4822 122 33809	22nF 20% 50V
2761	4822 124 40433	47µF 20% 25V
2762	4822 122 33809	22nF 20% 50V

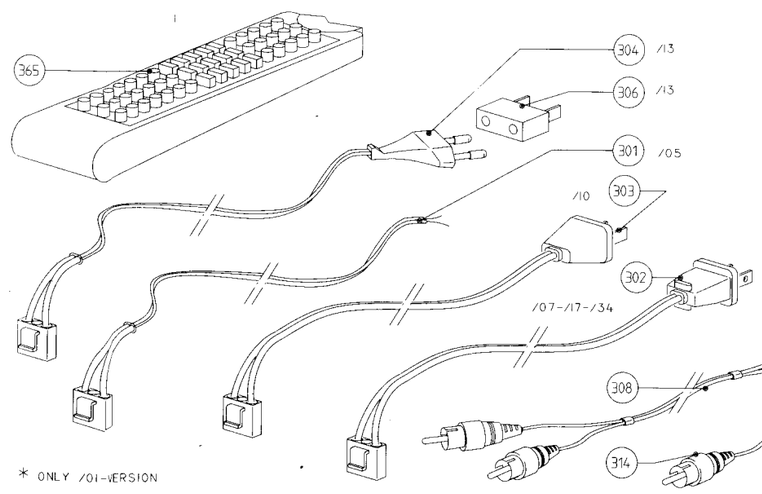
RESISTORS

3000	4822 050 24702	4k7 1% 0,6W
3001	4822 051 20104	100k 5% 0,1W
3002	4822 052 10478	4Ω7 5% 0,33W
3003	4822 052 10478	4Ω7 5% 0,33W
3004	4822 050 21503	15k 1% 0,6W
3005	4822 051 20101	100Ω 5% 0,1W
3006	4822 051 10102	1k 2% 0,25W
3007	4822 050 22403	24k 1% 0,6W
3008	4822 050 25602	5k6 1% 0,6W
3009	4822 050 21003	10k 1% 0,6W
3025	4822 050 24703	47k 1% 0,6W
3026	4822 050 22203	22k 1% 0,6W
3029	4822 050 25102	5k1 1% 0,6W
3030	4822 050 22204	220k 1% 0,6W
3031	4822 050 21203	12k 1% 0,6W
3032	4822 050 21504	150k 1% 0,6W
3033	4822 050 22203	22k 1% 0,6W
3041	4822 050 21103	11k 1% 0,6W
3042	4822 050 21504	150k 1% 0,6W
3043	4822 050 21204	120k 1% 0,6W
3044	4822 116 52234	100k 5% 0,5W
3045	4822 050 23904	390k 1% 0,6W
3046	4822 050 25603	56k 1% 0,6W
3047	4822 052 10279	27Ω 5% 0,33W
3048	4822 052 10229	22Ω 5% 0,33W
3049	4822 050 23305	3M3 1% 0,6W
3061	4822 050 23302	3k3 1% 0,6W
3062	4822 050 23002	3k 1% 0,6W
3063	4822 050 23308	3Ω3 1% 0,6W
3064	4822 052 10339	33Ω 5% 0,33W
3065	4822 052 10108	1Ω 5% 0,33W
3066	4822 052 10108	1Ω 5% 0,33W
3071	4822 050 22203	22k 1% 0,6W
3072	4822 050 22203	22k 1% 0,6W
3075	4822 050 21003	10k 1% 0,6W
3081	4822 052 10189	18Ω 5% 0,33W
3082	4822 052 10129	12Ω 5% 0,33W
3083	4822 051 10101	100Ω 2% 0,25W
3092	4822 050 21802	1k8 1% 0,6W
3094	4822 050 21803	18k 1% 0,6W
3100	4822 050 22202	2k2 1% 0,6W
3101	4822 050 22203	22k 1% 0,6W
3102	4822 111 30846	6Ω8 5% 0,25W
3105	4822 050 27509	75Ω 1% 0,6W

EXPLODED VIEW







* ONLY /01-VERSION

HAS.CD930.00B

3106	4822 050 23902	3k9 1% 0,6W
3107	4822 050 29102	9k1 1% 0,6W
3108	4822 050 21602	1k6 1% 0,6W
3109	4822 111 30846	6Ω8 5% 0,25W
3131	4822 050 24702	4k7 1% 0,6W
3132	4822 050 24703	47k 1% 0,6W
3133	4822 116 52234	100k 5% 0,5W
3134	4822 050 29103	91k 1% 0,6W
3135	4822 050 23302	3k3 1% 0,6W
3136	4822 050 15602	5k6 1% 0,4W
3137	4822 050 21504	150k 1% 0,6W
3138	4822 050 28203	82k 1% 0,6W
3139	4822 051 10101	100Ω 2% 0,25W
3140	4822 052 10478	4Ω7 5% 0,33W
3141	4822 052 10478	4Ω7 5% 0,33W
3142	4822 052 10478	4Ω7 5% 0,33W
3143	4822 052 10478	4Ω7 5% 0,33W
3144	4822 050 26804	680k 1% 0,6W
3145	4822 050 15602	5k6 1% 0,4W
3146	4822 050 13303	33k 1% 0,4W
3147	4822 050 24702	4k7 1% 0,6W
3148	4822 050 24702	4k7 1% 0,6W
3149	4822 051 10122	1k2 2% 0,25W
3150	4822 050 21604	160k 1% 0,6W
3151	4822 050 24702	4k7 1% 0,6W
3201	4822 111 30846	6Ω8 5% 0,25W
3202	4822 111 30846	6Ω8 5% 0,25W
3210	5322 116 51882	0Ω
3211	4822 111 30846	6Ω8 5% 0,25W
3212	4822 051 10561	560Ω 2% 0,25W
3213	4822 050 26201	620Ω 1% 0,6W
3214	4822 050 22203	22k 1% 0,6W
3215	4822 050 22203	22k 1% 0,6W
3216	4822 050 22203	22k 1% 0,6W
3219	4822 111 30846	6Ω8 5% 0,25W
3221	4822 050 22203	22k 5% 1/8W
3300	4822 111 30846	6Ω8 5% 0,25W
3301	4822 050 22204	220k 1% 0,6W
3302	4822 050 21002	1k 1% 0,6W
3303	4822 051 10101	100Ω 2% 0,25W
3304	4822 111 30846	6Ω8 5% 0,25W
3305	4822 111 30846	6Ω8 5% 0,25W
3306	4822 052 10101	100Ω 5% 0,33W
3307	4822 052 10101	100Ω 5% 0,33W
3308	4822 050 22403	24k 1% 0,6W
3309	4822 051 20101	100Ω 5% 0,1W
3310	4822 050 25103	51k 1% 0,6W
3311	4822 050 25103	51k 1% 0,6W
3312	4822 050 25103	51k 1% 0,6W
3313	4822 050 25103	51k 1% 0,6W
3314	4822 050 21003	10k 1% 0,6W
3315	4822 050 21003	10k 1% 0,6W
3316	4822 050 21003	10k 1% 0,6W
3317	4822 050 21003	10k 1% 0,6W
3318	4822 050 21003	10k 1% 0,6W
3319	4822 050 21003	10k 1% 0,6W
3320	4822 050 21003	10k 1% 0,6W
3321	4822 050 21003	10k 1% 0,6W
3322	4822 050 25602	5k6 1% 0,6W
3323	4822 050 25602	5k6 1% 0,6W
3326	4822 050 27502	7k5 1% 0,6W
3327	4822 050 27502	7k5 1% 0,6W
3328	4822 050 25602	5k6 1% 0,6W
3329	4822 050 25602	5k6 1% 0,6W
3330	4822 050 21003	10k 1% 0,6W
3331	4822 050 21003	10k 1% 0,6W
3332	4822 050 21003	10k 1% 0,6W
3333	4822 050 21003	10k 1% 0,6W
3334	4822 051 10101	100Ω 2% 0,25W
3335	4822 051 10101	100Ω 2% 0,25W
3336	4822 051 10101	100Ω 2% 0,25W
3337	4822 051 10101	100Ω 2% 0,25W
3338	4822 050 22202	2k2 1% 0,6W
3339	4822 050 22202	2k2 1% 0,6W
3340	4822 050 22202	2k2 1% 0,6W
3341	4822 050 22202	2k2 1% 0,6W
3342	4822 052 10109	10Ω 5% 0,33W
3343	4822 052 10109	10Ω 5% 0,33W
3344	4822 052 10109	10Ω 5% 0,33W
3345	4822 052 10109	10Ω 5% 0,33W
3348	4822 050 21003	10k 1% 0,6W
3349	4822 050 21003	10k 1% 0,6W
3350	4822 051 20472	4k7 5% 0,1W
3351	4822 050 24702	4k7 1% 0,6W
3352	4822 051 10008	0Ω 5% 0,25W
3354	4822 050 22204	220k 1% 0,6W
3355	4822 050 22204	220k 1% 0,6W
3392	4822 051 10101	100Ω 2% 0,25W
3393	4822 051 10101	100Ω 2% 0,25W
3394	4822 050 22202	2k2 1% 0,6W
3395	4822 051 20222	2k2 5% 0,1W
3520	4822 050 26801	680Ω 1% 0,6W
3521	4822 050 26801	680Ω 1% 0,6W
3522	4822 050 26801	680Ω 1% 0,6W
3523	4822 050 26801	680Ω 1% 0,6W
3524	4822 050 26801	680Ω 1% 0,6W
3525	4822 050 23302	3k3 1% 0,6W
3526	4822 051 10101	100Ω 2% 0,25W
3527	4822 050 24703	47k 1% 0,6W
3528	4822 050 22203	22k 1% 0,6W
3529	4822 050 21003	10k 1% 0,6W
3541	4822 050 23302	3k3 1% 0,6W
3561	4822 116 52224	470Ω 5% 0,5W
3562	4822 050 24703	47k 1% 0,6W
3563	4822 050 22205	2M2 1% 0,6W
3564	4822 050 21003	10k 1% 0,6W
3565	4822 050 13303	33k 1% 0,4W

3566	4822 050 22204	220k 1% 0,6W
3567	4822 050 21002	1k 1% 0,6W
3600	4822 050 25102	5k1 1% 0,6W
3602	4822 050 21003	10k 1% 0,6W
3603	4822 050 21003	10k 1% 0,6W
3604	4822 050 21003	10k 1% 0,6W
3605	4822 050 21003	10k 1% 0,6W
3606	4822 052 10108	1Ω 5% 0,33W
3607	4822 052 10108	1Ω 5% 0,33W
3608	4822 052 10229	22Ω 5% 0,33W
3701	4822 050 22204	220k 1% 0,6W
3702	4822 052 10478	4Ω7 5% 0,33W
3703	4822 050 22203	22k 1% 0,6W
3705	4822 050 22203	22k 1% 0,6W
3708	4822 050 22203	22k 1% 0,6W
3709	4822 050 22203	22k 1% 0,6W
3710	4822 050 22203	22k 1% 0,6W
3721	4822 050 22201	220Ω 1% 0,6W
3722	4822 050 21002	1k 1% 0,6W
3723	4822 050 22203	22k 1% 0,6W
3731	4822 050 22204	220k 1% 0,6W
3733	4822 050 22203	22k 1% 0,6W
3735	4822 050 22203	22k 1% 0,6W
3736	4822 050 22203	22k 1% 0,6W
3741	4822 050 22203	22k 1% 0,6W
3742	4822 050 22203	22k 1% 0,6W
3743	4822 050 22203	22k 1% 0,6W
3744	4822 050 22203	22k 1% 0,6W
3745	4822 050 22203	22k 1% 0,6W
3746	4822 050 22203	22k 1% 0,6W
3747	4822 050 22203	22k 1% 0,6W
3748	4822 050 22203	22k 1% 0,6W
3751	4822 050 21003	10k 1% 0,6W
3752	4822 050 21003	10k 1% 0,6W
3761	4822 052 10109	10k 5% 0,33W
3762	4822 050 21803	18k 1% 0,6W
3763	4822 050 24703	47k 1% 0,6W
3764	4822 051 10101	100Ω 2% 0,25W
3765	4822 050 24703	47k 1% 0,6W
3766	4822 050 24703	47k 1% 0,6W
3767	4822 050 24703	47k 1% 0,6W
3768	4822 050 24703	47k 1% 0,6W
4001	4822 051 10008	0Ω 5% 0,25W
4002	4822 051 10008	0Ω 5% 0,25W
4004	4822 051 10008	0Ω 5% 0,25W
4005	4822 051 10008	0Ω 5% 0,25W
4006	4822 051 10008	0Ω 5% 0,25W
4007	4822 051 10008	0Ω 5% 0,25W
4008	4822 051 10008	0Ω 5% 0,25W
4009	4822 051 10008	0Ω 5% 0,25W
4010	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W
4013	4822 051 10008	0Ω 5% 0,25W
4014	4822 051 10008	0Ω 5% 0,25W
4015	4822 051 10008	0Ω 5% 0,25W
4016	4822 051 10008	0Ω 5% 0,25W
4018	4822 051 10008	0Ω 5% 0,25W
4019	4822 051 10008	0Ω 5% 0,25W
4021	4822 051 10008	0Ω 5% 0,25W
4022	4822 051 10008	0Ω 5% 0,25W
4023	4822 051 10008	0Ω 5% 0,25W
4024	4822 051 10008	0Ω 5% 0,25W
4026	4822 051 10008	0Ω 5% 0,25W
4027	4822 051 10008	0Ω 5% 0,25W
4030	4822 051 10008	0Ω 5% 0,25W
4031	4822 051 10008	0Ω 5% 0,25W
4032	4822 051 10008	0Ω 5% 0,25W
4034	4822 051 10008	0Ω 5% 0,25W
4036	4822 051 10008	0Ω 5% 0,25W
4037	4822 051 10008	0Ω 5% 0,25W
4039	4822 051 10008	0Ω 5% 0,25W
4043	4822 051 10008	0Ω 5% 0,25W
4044	4822 051 10008	0Ω 5% 0,25W
4045	4822 051 10008	0Ω 5% 0,25W
4046	4822 051 10008	0Ω 5% 0,25W
4047	4822 051 10008	0Ω 5% 0,25W
4050	4822 051 10008	0Ω 5% 0,25W
4051	4822 051 10008	0Ω 5% 0,25W
4053	4822 051 10008	0Ω 5% 0,25W
4056	4822 051 10008	0Ω 5% 0,25W
4057	4822 051 10008	0Ω 5% 0,25W
4058	4822 051 10008	0Ω 5% 0,25W
4060	4822 051 10008	0Ω 5% 0,25W
4061	4822 051 10008	0Ω 5% 0,25W
4062	4822 051 10008	0Ω 5% 0,25W
4066	4822 051 10008	0Ω 5% 0,25W
4067	4822 051 10008	0Ω 5% 0,25W
4071	4822 051 10008	0Ω 5% 0,25W
4081	4822 051 10008	0Ω 5% 0,25W
4085	4822 051 10008	0Ω 5% 0,25W
4086	4822 051 10008	0Ω 5% 0,25W

COILS

5211	4822 148 80281	DIG.OUT TRANSFORMER
5300	4822 157 51192	220µH
5301	4822 157 51192	220µH
5302	4822 157 51235	4,7µH

DIODES

6061	4822 130 30861	BZX79-C7V5
6062	4822 130 30861	BZX79-C7V5
6201	4822 130 30621	1N4148
6300	4822 130 30621	1N4148
6301	4822 130 30621	1N4148
6511	5322 130 30684	1N4002
6512	5322 130 30684	1N4002
6513	5322 130 30684	1N4002
6514	5322 130 30684	1N4002
6520	4822 130 30621	1N4148
6521	4822 130 30621	1N4148
6522	4822 130 30621	1N4148
6541	5322 130 30684	1N4002
6543	4822 130 31981	BZX79-C3V9
6544	4822 130 34173	BZX79-C5V6
6561	4822 130 34278	BZX79-C6V8
6562	4822 130 30621	1N4148
6563	4822 130 30621	1N4148
6564	4822 130 30621	1N4148
6565	5322 130 30684	1N4002
6566	5322 130 30684	1N4002
6567	4822 130 31981	BZX79-C3V9
6700	4822 130 31983	BAT85
6721	4822 130 80235	BZX79-C3V3

TRANSISTORS & IC's

7001	4822 209 73234	TDA8808T/C3
7002	4822 209 73235	TDA8809T/C2
7003	4822 209 72587	TCA0372DP2-
7004	5322 130 44349	BC635
7100	4822 209 61759	SAA7310GP/H5
7101	4822 130 42131	BF550
7102	4822 209 70422	MN4264-15
7131	4822 209 83274	NJM4560D
7132	4822 130 44121	BC338
7133	4822 130 44104	BC328
7134	5322 130 42012	BC858A
7135	5322 130 42012	BC858A
7136	4822 130 61207	BC848
7201	4822 209 30939	SM5840AS
7202	5322 209 12099	MC74HC164D
7203	5322 209 12099	MC74HC164D
7204	4822 209 30739	MC74HC04AD
7211	4822 209 62588	PCF3523P
7212	4822 130 61207	BC848
7213	4822 209 31284	MC74HC08AD
7300	4822 209 31086	SAA7350
7302	4822 209 83163	LM833N
7303	4822 209 83163	LM833N
7304	4822 130 42696	BC818-25
7305	4822 130 42696	BC818-25
7306	4822 130 42696	BC818-25
7307	4822 130 42696	BC818-25
7310	5322 130 42012	BC858
7311	5322 130 42012	BC858
7382	4822 130 42696	BC818-25
7383	4822 130 42696	BC818-25
7520	4822 130 60492	BC376
7521	4822 209 80891	MC78M05CT
7522	4822 209 73233	MC79L05ACP
7525	5322 130 41982	BC848B
7526	5322 130 41982	BC848B
7527	5322 130 41982	BC848B
7541	4822 209 62115	MC79L15ACP
7561	5322 130 41982	BC848B
7562	5322 130 42012	BC858
7600	4822 209 62059	TCA0372DP1
7701	4822 209 30938	MC68HC05C8P/ZC405027
7702	4822 209 72042	MC78L05ACP
7721	5322 130 42012	BC858
7731	4822 209 30984	MC68HC05D9P/ZC400014
7732	5322 130 42012	BC858
7751	4822 209 63244	X24C04P1
7761	5322 130 42012	BC858
7762	4822 130 61207	BC848
7763	5322 130 41982	BC848B

DISPLAY PANEL

MISCELLANEOUS

	4822 256 91848	DISPLAY HOLDER
1401	4822 242 72527	RESONATOR 4MHz
1402	4822 130 91073	DISPLAY CD930
1403	4822 267 50723	CONNECTOR 13P
1404	4822 267 40624	RFK5 CONNECTOR
1405	4822 267 40624	RFK5 CONNECTOR
1406	4822 267 40624	RFK5 CONNECTOR
1407	4822 267 40624	RFK5 CONNECTOR
1410	4822 276 13114	TACT SWITCH
1411	4822 276 13114	TACT SWITCH
1412	4822 276 13114	TACT SWITCH
1413	4822 276 13114	TACT SWITCH
1414	4822 276 13114	TACT SWITCH
1415	4822 276 13114	TACT SWITCH
1416	4822 276 13114	TACT SWITCH
1417	4822 276 13114	TACT SWITCH
1418	4822 276 13114	TACT SWITCH
1419	4822 276 13114	TACT SWITCH
1420	4822 276 13114	TACT SWITCH
1421	4822 276 13114	TACT SWITCH
1451	4822 214 51772	IR RECEIVER GP1U521X

CAPACITORS

2401	4822 122 10166	22nF 30% 16V
2404	5322 124 21643	22µF 20% 40V
2405	4822 122 10166	22nF 30% 16V
2406	5322 124 21643	22µF 20% 40V
2407	4822 122 10166	22nF 30% 16V
2408	4822 122 10166	22nF 30% 16V
2409	4822 122 10177	10nF 20% 25V
2451	5322 124 21643	22µF 20% 40V
2452	4822 122 10166	22nF 30% 16V

RESISTORS

3401	4822 052 10478	4Ω7 5% 0,33W
3402	4822 050 22204	220k 1% 0,6W
3403	4822 050 22203	22k 1% 0,6W
3404	4822 050 22203	22k 1% 0,6W
3405	4822 050 21002	1k 1% 0,6W
3406	4822 050 22203	22k 1% 0,6W
3407	4822 050 22203	22k 1% 0,6W
3408	4822 050 22203	22k 1% 0,6W
3409	4822 050 22203	22k 1% 0,6W
3411	4822 052 10109	10Ω 5% 0,33W
3412	4822 116 52234	100k 5% 0,5W
3414	4822 051 10101	100Ω 2% 0,25W
3415	4822 116 52234	100k 5% 0,5W
3417	4822 051 10101	100Ω 2% 0,25W
3418	4822 116 52234	100k 5% 0,5W
3420	4822 051 10101	100Ω 2% 0,25W
3421	4822 116 52234	100k 5% 0,5W
3422	4822 051 10101	100Ω 2% 0,25W
3423	4822 116 52234	100k 5% 0,5W
3425	5322 111 90473	8x10k 2% NETWORK
3426	4822 052 10478	4Ω7 5% 0,33W
3427	4822 052 10478	4Ω7 5% 0,33W
3428	4822 050 24702	4k7 1% 0,6W
3429	4822 050 24703	47k 1% 0,6W
3430	4822 050 23302	3k3 1% 0,6W
3431	4822 050 23302	3k3 1% 0,6W
3432	4822 050 23302	3k3 1% 0,6W
3451	4822 052 10478	4Ω7 5% 0,33W
3452	4822 050 24702	4k7 1% 0,6W

DIODES

6401	4822 130 30621	1N4148
6402	4822 130 30621	1N4148
6403	4822 130 30621	1N4148

TRANSISTORS & IC'S

7401	4822 209 30249	TMP47C212AN
7402	4822 209 30733	74HC164N
7403	4822 209 60886	UDN-2580A
7405	4822 130 40941	BC558
7406	4822 130 40938	BC548
7407	4822 130 40938	BC548
7408	4822 130 40938	BC548
7409	4822 130 40938	BC548

KEYBOARD PANEL

MISCELLANEOUS

1422	4822 276 13114	TACT SWITCH
1423	4822 276 13114	TACT SWITCH
1424	4822 276 13114	TACT SWITCH
1425	4822 276 13114	TACT SWITCH
1426	4822 276 13114	TACT SWITCH
1427	4822 276 13213	SWITCH
1428	4822 276 13213	SWITCH
1429	4822 276 13213	SWITCH
1430	4822 276 13213	SWITCH
1431	4822 276 13213	SWITCH
1432	4822 276 13213	SWITCH
1433	4822 276 13114	TACT SWITCH
1434	4822 276 13114	TACT SWITCH
1435	4822 276 13213	SWITCH
1436	4822 276 13114	TACT SWITCH
1437	4822 276 13114	TACT SWITCH
1438	4822 276 13114	TACT SWITCH
1439	4822 276 13114	TACT SWITCH

DIODES

6404	4822 130 30621	1N4148
6405	4822 130 30621	1N4148
6406	4822 130 30621	1N4148
6407	4822 130 30621	1N4148
6408	4822 130 30621	1N4148

HEADPHONE PANEL

MISCELLANEOUS

BU-5	4822 267 31453	HEADPHONE SOCKET
1310	4822 267 40624	RFK5 CONNECTOR

CAPACITORS

2382	4822 122 10166	22nF 30% 16V
2383	4822 122 10166	22nF 30% 16V

RESISTORS

3381	4822 102 10398	10k LOG POTMETER
3382	4822 116 52244	15k 5% 0,5W
3383	4822 116 52244	15k 5% 0,5W
3384	4822 050 21003	10k 1% 0,6W
3385	4822 050 21003	10k 1% 0,6W
3386	4822 050 21201	120Ω 1% 0,6W
3387	4822 050 21201	120Ω 1% 0,6W
3388	4822 051 10101	100Ω 2% 0,25W
3389	4822 051 10101	100Ω 2% 0,25W
3390	4822 052 10228	2Ω2 5% 0,33W
3391	4822 052 10228	2Ω2 5% 0,33W

IC

7380	4822 209 82362	NJM4556D

MISCELLANEOUS

SK-1	4822 276 13216	MAINS SWITCH
21	4822 256 30274	FUSE HOLDER
1010	4822 277 21366	VOLTAGE SELECTOR
1010	4822 462 41505	COVER
1010	5322 256 34058	FUSE HOLDER
1010	5322 462 44478	FUSE CAP
1501	4822 070 31251	FUSE 125mA
5001	4822 146 31045	MAINS TRANSFORMER
5001	4822 146 31153	MAINS TRAFO /01
5502	4822 214 51841	MAINS FILTER

Modifications with A92-255

Page	Reason
Frontpage	/01S added.
2a	/01S added.
4a	Warning Class 3B Laser product added.
19a	Voltage selector added.
20a	Oscillogram of eyepattern adapted.
21a,22a,23a	R3151, R3221, R3210 added; R3150 adapted.
	D6201 added; oscillograms of eyepattern, WSAB,CLAB adapted.
24a,25a,26a	R3309, C2301, L5302, D6700 added.
27-1,28-1,29-1	Main panel: lay-out L3 introduced in week 9226 with printlabel H for /00S and
30-1,31-1,32-1	with printlabel B for /05S and /01S.
44a,45a	Position 99 added.
46a	Clamping piece and CDM 9 changed.
49a	C2210, C2301 added; C2302, C2310, C2311 adapted.
50a	R3094 correction.
51a	R3151, R3210, R3221, R3309 added; R3150 adapted.
52a	L5302 added; D6201 added.
53a	D6700 added;T7136 added; T7213,T7763 adapted.
55a	Voltage selector,cover, fuse holder, fuse cap, mains transfo /01S added.
56	Modifications A92-255 added